

FORM **EIA-846C**
(5-1-89)

Public reporting burden for this collection of information is estimated to average 8 hours per response, including the time of reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Energy Information Administration, Office of Statistical Standards, EI-73, Mail Station: 1H-023 Forrestal, 1000 Independence Avenue, SW, Washington, DC 20485; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

In correspondence pertaining to this report, please refer to this Census File Number (CFN).

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

PLEASE COMPLETE THIS FORM AND RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, IN 47132

DUE DATE:

NOTE
Please read the enclosed instructions before filling out this form. Complete each item. If you have any questions, call (301) 763-7066.

If you cannot file by the due date, a time extension request should be sent to the above address, please include your 11-digit Census File Number (CFN).

Section I – NONCOMBUSTIBLE ENERGY SOURCES

Item description (1)	Electricity (2)			Steam (3)			Industrial hot water (4)		
	109			117			125		
	Kilowatthours			Million Btu			Million Btu		
1a. During 1988, what amount of each energy source was purchased by this establishment from utilities and delivered to this establishment site?	Mil.	Thou.	kWh						
1b. What was the total expenditure for the purchased energy sources reported on line 1a?	Dollars			Dollars			Dollars		
	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.
2a. During 1988, what amount of electricity and steam was purchased from nonutility suppliers by this establishment and delivered to this establishment site?	Kilowatthours			Million Btu					
	Mil.	Thou.	kWh						
2b. What was the total expenditure for the purchased electricity and steam reported on line 2a?	Dollars			Dollars					
	Mil.	Thou.	Dol.	Mil.	Thou.	Dol.			
3. During 1988, what amount of each energy source was transferred from outside establishments and delivered to this establishment site? Do not include the purchases reported in lines 1a or 2a.	Kilowatthours			Million Btu			Million Btu		
	Mil.	Thou.	kWh						
4. TOTAL electricity receipts. (Sum of lines 1a, 2a, and 3). NOTE – Copy this quantity to column 2, line 1 of Section III – FUEL SWITCHING.									
5. During 1988, how much electricity was generated on this establishment site by cogeneration?									
6. During 1988, how much of each energy source was generated onsite from solar power, wind power, hydropower, and geothermal sources?				Million Btu			Million Btu		
7. During 1988, how much electricity was generated onsite by processes other than those covered on lines 5 and 6?									
8. During 1988, how much electricity was sold or transferred to utilities?									
9. During 1988, how much of each energy source was sold or transferred to establishments other than utilities?				Million Btu			Million Btu		

10. If line 3, column 2 has a nonzero entry, and any of your electricity suppliers was another establishment of your company, identify that establishment at right. If you received electricity transfers from more than one establishment of your company, provide their identifying information in the "Remarks" section.

1 Name of energy supplier

Address – Number and street

CityStateZIP CodePhone number

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Questions 11 and 12 below should be answered if this establishment generated any electricity onsite in 1988. If no electricity was generated onsite (column 2 has zero entries for lines 5, 6, and 7), omit questions 11 and 12 and proceed directly to Section II – Combustible Energy Sources.

11. Was this establishment electrically interconnected with an electric utility (that is, able to deliver electricity to the grid as well as receive electricity) as of December 31, 1988?

12. Was this establishment designated as a Qualifying Facility (QF) under Public Utility Regulatory Policies Act of 1978 (PURPA) as of December 31, 1988?

1 ☐ Yes2 ☐ No

1 ☐ Yes2 ☐ No

Section II – COMBUSTIBLE ENERGY SOURCES

Energy sources received in 1988				Units used for reporting quantities (3)	Census Use Only (2)	Energy sources (1)	
Quantity purchased by and delivered to this establishment (4)		Total expenditure, including delivery charges, of the quantity in col. (4) (5)	Total other receipts (transfers in and central purchases) (6)				
				Short tons	Million Btu	406	1. Anthracite
						414	2. Bituminous and subbituminous coal
						448	3. Breeze
						430	4. Coal coke
						422	5. Lignite
						455	6. Total coal and coke (Sum of anthracite, bituminous and subbituminous coal, breeze, coal coke and lignite)
						901	7. Biomass
						703	8. Petroleum coke
						802	9. Roundwood (wood cut specifically for fuel use)
						729	10. Waste materials (wastepaper, packing materials, etc.)
				Million Btu	810	11. Wood chips, bark, and wood waste	
					919	12. Other solids (Specify)	
					927		
					307	1. Natural gas	
					646	2. Acetylene	
					604	3. Blast furnace gas	
					612	4. Coke oven gas	
					638	5. Hydrogen	
					620	6. Waste and byproduct gases (e.g., refinery off gas, vent gas, plant gas, still gas)	
					935	7. Other gases (Specify)	
				Gallons	943		
					224	1. Distillate fuel oil (numbers 1, 2, and 4 fuel oils and diesel)	
					273	2. Kerosene	
					240	3. LPG (ethane, ethylene, propane, propylene, butane, butylene)	
					232	4. Motor gasoline	
					737	5. Pulping or black liquor	
					216	6. Residual fuel oil (numbers 5, 6, navy special, and bunker c)	
					711	7. Waste oils and tars	
					950	8. Other liquids (Specify)	
					968		

For the purposes of questions 1, 2a, and 2b below, energy sources include: acetylene, breeze, butane/butylene, coal coke, distillate fuel oil, ethane/ethylene, isobutane, petroleum coke, propane/propylene, and residual fuel oil.

182

1. Total Btu content of energy source products shipped during 1988.

If the answer to question 1 is zero, omit questions 2a and 2b and proceed directly to question 3 on page 3. If question 1 has a nonzero response, include in the answers to questions 2a and 2b only those energy source products that were reported in question 1.

2a. Total Btu value of all energy source inventories as of December 31, 1987.

2b. Total Btu value of all energy source inventories as of December 31, 1988.

Section II – COMBUSTIBLE ENERGY SOURCES – Continued

Energy sources produced onsite in 1988		Energy sources consumed onsite in 1988		Energy sources (11)	Census Use Only (12)
Quantity produced onsite (7)	Does the entry in col. (7) represent the product or byproduct of another energy source consumed onsite? (8)	Quantity consumed as a fuel (9)	Quantity consumed for all nonfuel purposes (10)		
				A. SOLIDS	
				1. Anthracite	406
				2. Bituminous and subbituminous coal	414
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			3. Breeze	448
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			4. Coal coke	430
				5. Lignite	422
		Copy to line 1 of section 3 ↘		6. Total coal and coke (Sum of anthracite, bituminous and subbituminous coal, breeze, coal coke and lignite)	455
				7. Biomass	901
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			8. Petroleum coke	703
				9. Roundwood (wood cut specifically for fuel use)	802
				10. Waste materials (wastepaper, packing materials, etc.)	729
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			11. Wood chips, bark, and wood waste	810
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			12. Other solids	919
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No				927
		Copy to line 1 of section 3 ↘		B. GASES	
				1. Natural gas	307
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			2. Acetylene	646
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			3. Blast furnace gas	604
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			4. Coke oven gas	612
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			5. Hydrogen	638
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			6. Waste and byproduct gases (e.g., refinery off gas, vent gas, plant gas, still gas)	620
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			7. Other gases	935
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No				943
		Copy to line 1 of section 3 ↘		C. LIQUIDS	
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			1. Distillate fuel oil (numbers 1, 2, and 4 fuel oils and diesel)	224
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			2. Kerosene	273
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	Copy to line 1 of section 3 ↘		3. LPG (ethane, ethylene, propane, propylene, butane, butylene)	240
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			4. Motor gasoline	232
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			5. Pulping or black liquor	737
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	Copy to line 1 of section 3 ↘		6. Residual fuel oil (numbers 5, 6, navy special, and bunker c)	216
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			7. Waste oils and tars	711
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No			8. Other liquids	950
	1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No				968

3. Enter the total design storage capacity located onsite as of December 31, 1988 for:

3a. Distillate fuel oil	224	Barrels
3b. Residual fuel oil	216	Barrels
3c. LPG	240	Gallons

Section III – FUEL SWITCHING

Item description	109	(2)	455	(3)
1. Quantity consumed – Copy the total electricity receipts from line 4 of section I, and the quantities of coal and coke, natural gas, distillate fuel oil, LPG, and residual fuel oil consumed onsite as a fuel from column (9) of section II.				
2. Quantity nonswitchable – Enter the amount of the quantity in line 1 that could NOT have been replaced within 30 days by another energy source in 1988.				
3. Quantity switchable – Subtract line 2 from line 1 and enter the results. This represents the total quantity of energy consumption that COULD HAVE BEEN replaced within 30 days by one or more alternative energy sources in 1988.				
Now answer lines 2 and 3 as appropriate for the columns with nonzero entries in line 1. Do not consider differences in energy prices when estimating amounts.				
4a. Of the amount shown in line 3, what is the maximum amount that could have been replaced by electricity?				
4b. What is the minimum lead time required to make the switch to electricity?				
5a. Of the amount shown in line 3, what is the maximum amount that could have been replaced by coal and coke?				
5b. What is the minimum lead time required to make the switch to coal and coke?				
6a. Of the amount shown in line 3, what is the maximum amount that could have been replaced by natural gas?				
6b. What is the minimum lead time required to make the switch to natural gas?				
7a. Of the amount shown in line 3, what is the maximum amount that could have been replaced by distillate fuel oil?				
7b. What is the minimum lead time required to make the switch to distillate fuel oil?				
8a. Of the amount shown in line 3, what is the maximum amount that could have been replaced by LPG?				
8b. What is the minimum lead time required to make the switch to LPG?				
9a. Of the amount shown in line 3, what is the maximum amount that could have been replaced by residual fuel oil?				
9b. What is the minimum lead time required to make the switch to residual fuel oil?				
10a. Of the amount shown in line 3, what is the maximum amount that could have been replaced by any other energy source? Identify that energy source.				
10b. What is the minimum lead time required to make the switch to that energy source?				

Section III – FUEL SWITCHING – Continued

307	Natural gas (4)	224	Distillate fuel oil (5)	240	LPG (6)	216	Residual fuel oil (7)
	1,000 cu. ft.		Barrels		Gallons		Barrels
	1,000 cu. ft.		Barrels		Gallons		Barrels
	1,000 cu. ft.		Barrels		Gallons		Barrels
	1,000 cu. ft.		Barrels		Gallons		Barrels
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
	1,000 cu. ft.		Barrels		Gallons		Barrels
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
			Barrels		Gallons		Barrels
		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
	1,000 cu. ft.				Gallons		Barrels
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days				1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
	1,000 cu. ft.		Barrels				Barrels
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days						1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
			Barrels		Gallons		
		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
	1,000 cu. ft.						
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days				1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
	1,000 cu. ft.		Barrels				Barrels
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days						1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
			Barrels		Gallons		
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	
	1,000 cu. ft.		Barrels		Gallons		Barrels
1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days		1 <input type="checkbox"/> Less than 1 day 2 <input type="checkbox"/> 1 day to 1 week 3 <input type="checkbox"/> More than 1 week but within 30 days	

Section IV - REMARKS - Please

Section IV — REMARKS — Please use this space or attach a separate sheet for any explanations that may be essential in understanding your reported data. Be sure to include the name, address, and telephone number of power generating establishments of your company that transferred or delivered electricity or steam to your establishment in 1988 if you did not have enough room in section I.